INDEX

APPLIED BIOCHEMISTRY AND MICROBIOLOGY

Volume 8, Numbers 1-6, 1972

APPLIED BIOCHEMISTRY AND MICROBIOLOGY
Volume 8, Numbers 1-6, 1972
(A translation of Prikladnaya Biokhimiya i Microbiologiya)

A

Abramovich, R. Ya. - 431
Adamyan, A. Kh. - 618
Afanas'eva, O. V. - 321
Ambartsumyan, E. R. - 530
Andreev, L. V. - 63
Andreeva, N. A. - 554
Andreevskaya, V. D. - 586
Andrusenko, M. Ya. - 204, 582
Apukhovskaya, L. I. - 550
Areshkina, L. Ya. - 308, 403
Arevshatyan, A. A. - 273
Arslanbekova, I. G. - 638
Atsberger, L. B. - 642
Avakyants, S. P. - 408
Avetisyan, R. G. - 101, 618

B

Babakhanov, B. A. - 215
Babayants, A. V. - 295
Balashova, N. A. - 428
Baldina, A. V. - 1
Baliauri, V. D. - 355
Baram, B. M. - 503
Baskakova, A. A. - 1
Bauman, V. K. - 113, 543
Bekker, V. F. - 403
Belov, A. N. - 242
Belova, G. A. - 276
Belova, Z. P. - 187
Belyaeva, M. I. - 613
Bezborodov, A. M. - 219, 449, 609
Bezborodova, S. I. - 91, 191
Bezzubov, A. A. - 43
Boitsova, A. V. - 362
Bol'shakov, A. S. - 312
Borikhina, M. G. - 51
Borodina, R. A. - 204, 582
Bukina, N. V. - 257, 340
Bur'yan, N. I. - 629
Butkene, V. P. - 601
Butkus, K. D. - 601
Buzlanova, M. M. - 69, 522
Buzov, I. P. - 242, 605

C

Ch'ang Thi Than Mai - 351
Chartov, E. M. - 660
Chekhova, A. E. - 222
Chernyak, A. S. - 304
Chervina, L. V. - 69
Chervyakova, K. I. - 419
Chikovani, N. Sh. - 212

D

Damberg, B. É. - 239
Davidova, E. G. - 182
Davydova, L. G. - 582
Demchenko, I. V. - 668
Demchinskaya, L. A. - 668
Demidov, V. S. - 247
Dilanyan, Z. Kh. - 590
Dobrolinskaya, G. M. - 476
Dolgikh, T. V. - 301
Dolidze, D. A. - 393, 518
Drabkin, B. S. - 376
Dubinskaya, A. P. - 124
Dubyaga, V. P. - 660
Dudkin, M. S. - 469
D'yachenko, P. F. - 533
Dzhamaspishvili, Ts. Sh. - 232
Dzhemukhadze, K. M. - 176
Dzhindzholiya, R. R. - 212

E

Egorov, I. A. - 43
Egorov, N. S. - 554
El'bert, A. A. - 660
Eliseev, Ya. T. - 222
Enikeeva, N. G. - 422
Erkomaishvili, G. S. - 13
Ermachkova, L. T. - 623
Eroshin, V. K. - 138, 143
Erygin, G. D. - 530
Evdokimova, G. I. - 485
Evstigneeva, Z. G. - 73
Ezhova, I. P. - 336

F

Fam, Lyong Duk - 270
Fedotova, I. M. - 265
Feniksova, R. V. - 286, 367, 393, 456
Finkel'shtein, Z. I. - 63
Fisher, P. N. - 576
Fuda, I. U. - 99

G

Gadzhiev, G. R. - 634
Galun, N. I. - 147
Gareishina, A. Z. - 613
Gavrilova, N. N. - 261
Gebgardt, A. G. - 290
Gil'zin, V. M. - 332
el Gindi, M. M. - 99
Gogiya, V. T. - 508, 645
Golenkov, V. F. - 332
Gololobov, A. D. - 147, 152, 371
Golomzik, A. I. - 30
Golovina, I. G. - 462
Golovleva, L. A. - 63
Golovnya, R. V. - 422
Gorpinchenko, T. V. - 327
Gracheva, I. M. - 261
Grebeshova, R. N. - 564
Grigor'eva, S. P. - 168
Gudkov, A. V. - 594
Guseva, A. R. - 51, 78
Guseva, I. I. - 219, 609
Gvozdev, R. I. - 187

H

Hamid el Farra, A. - 99

I

Ignat'ev, B. D. - 362
Il'in, G. S. - 105
Il'ina, T. V. - 191
Isarova, L. Yu. - 485
Istranov, L. P. - 560
Ivanova, B. - 84
Ivanova, G. I. - 152
Ivanova, G. S. - 449

K

Kaftanova, L. E. - 512
Kalashnikova, N. A. - 469
Kalunyants, K. A. - 38
Kaluyants, N. P. - 576
Kalyuzhnyi, M. Ya. - 317
Kapitonova, L. S. - 456
Kaptereva, Yu. V. - 270, 428
Kapustina, V. V. - 469
Karpeev, I. I. - 312
Katykhina, T. N. - 122
Kaverzneva, E. D. - 13
Kazakov, E. D. - 351, 490
Khachaturyan, S. S. - 101
Khandak, R. N. - 594
Khanukaev, Ya. A. - 295
Kharebava, L. M. - 212
Khlebnikov, V. I. - 312
Khotyanovich, A. V. - 159, 537
Khuskivadze, B. K. - 371
Kiselev, O. M. - 54
Kishkovskii, Z. N. - 38
Klebanov, G. I. - 533
Kleiner, G. I. - 473
Klintsare, A. A. - 345
Kobakhidze, Sh. K. - 212
Kobyakova, L. P. - 108
Koleshko, O. I. - 399
Kolmakova, É. F. - 95
Kol'tsova, É. V. - 567
Kondakova, L. N. - 295
Kononov, N. F. - 660
Konovalov, S. A. - 439
Korchak, O. B. - 182
Korchinskii, A. V. - 295
Kormakoa, T. A. - 43, 215, 634
Kozlov, K. A. - 317
Kozlova, T. A. - 444
Kozlovskii, A. G. - 219
Koz'mina, O. P. - 571
Koshel', M. I. - 668
Krasheninin, P. F. - 381, 605
Kretovich, V. L. - 73, 232, 327, 336
Kruglaya, O. V. - 609
Kubareva, Z. I. - 159
Kucheras, R. V. - 290
Kuznetsov, A. A. - 19
Kuznetsov, B. A. - 196

L

Laivenieks, M. G. - 239
Latysheva, N. N. - 147
Lazarev, A. I. - 567
Lazareva, V. V. - 34
Legchilina, S. P. - 163
Leonova, V. G. - 69
Lifshits, D. B. - 512
Linevich, L. I. - 530
Lipsits, D. V. - 225
Logotkin, I. S. - 281
Lopatnev, S. V. - 473
Lovacheva, G. N. - 664
Lovkova, M. Ya. - 105
Lukina, G. P. - 281
L'vov, N. P. - 196

M

Makarchuk, F. T. - 419
Maksimova, G. N. - 168
Malishevskaya, L. V. - 143
Maneshin, S. K. - 273
Markauskaite, R. B. - 91
Markman, A. L. - 503
Martakov, A. A. - 623
Medovaya, I. B. - 512
Megrelidze, K. V. - 43
Metlitskii, L. V.- 355
Mgaloblishvili, T. S. - 176
Mikhailova, T. L. - 30
Mikhlin, É. D. - 594
Mineev, G. G. - 304
Minkevich, I. G. - 138
Minozhedinova, N. S. - 105
Mishke, I. V. - 345
Mishnaevskii, N. V. - 376
Mitrofanov, N. S. - 312
Morchiladze, Z. N. - 232
Morkovina, É. A. - 576
Mosichev, M. S. - 605
Moskvichev, B. V. - 657
Mukhtarova, M. R. - 664

N

Nashataeva, E. V. - 54
Nilov, G. I. - 222
Nilov, V. I. - 629
Novgorodova, N. S. - 242
Novotel'nov, N. V. - 201

O

Obraztsova, N. V. - 586
Ochneva, I. N. - 576
Oreshkin, E. N. - 567
Orosyn, B. - 560
Ozeretskovskaya, O. L. - 355

P

Paseshnichenko, V. A. - 78
Perepechkin, L. P. - 660
Perevozchenko, I. I. - 7
Persianova, I. P. - 419
Petrenko, A. A. - 295
Petrova, I. S. - 393, 518
Pipinis, I. A. - 47
Pisarenko, T. N. - 476
Pisareva, N. S. - 270
Plaksina, T. B. - 26
Polyakov, V. A. - 638
Pomerants, L. B. - 481
Popkov, G. P. - 138
Popov, A. - 84
Popova, N. V. - 265
Potoroko, G. V. - 623
Priezzheva, L. G. - 332
Priputina, L. S. - 208
Prokof'eva, A. A. - 257, 340
Proskuryakov, M. T. - 397
Pukit, N. Yu. - 286
Pushkin, A. V. - 73

R

Rachinskii, V. V. - 182
Rassulin, Yu. A. - 13
Renzina, S. D. - 564
Rodionova, N. A.- 367, 456
Rodopulo, A. K. - 43
Rokhlenko, S. G. - 38
Rotar', A. I. - 431
Rozhanskaya, T. I. - 657
Rubtsova, N. A. - 605
Ruklisha, M. P. - 651
Runov, V. I. - 204, 582
Ryabova, T. S. - 152

S

Sadkov, A. P. - 187
Sagoyan, A. S. - 590
Samsonov, G. V. - 444, 657
Sapozhnikova, E. V. - 495
Sarkisova, L. G. - 408
Savel'eva, O. N. - 355
Seitov, Z. S. - 133
Selekhova, G. B. - 657
Selezneva, A. A.- 444
Semenova, L. P. - 304
Sergeeva, E. G. - 301, 605
Shakarova, F. I. - 408
Shalamberidze, N. G. - 367
Shcherbanovskii, L. R. - 222
Shittabe, K. - 78
Shkidchenko, A. N. - 522
Shklyar, B. Kh. - 155
Shlyapnikov, V. A. - 414
Shlyapnikova, A. P. - 414
Shmeleva, L. I. - 201

Shmyreva, T. V. - 26
Shukan, L. A. - 155
Shurygina, N. N. - 435
Shvartsman, V. M. - 564
Sikilinda, V. A. - 225
Skirstymonskii, A. I. - 668
Skorkin, G. K. - 525
Skryabin, G. K. - 63
Smirnov, V. I. - 571
Smirnova, T. A. - 560
Snegireva, L. V. - 308, 403
Sokolov, I. N. - 222
Solov'ev, V. I. - 124
Starodubtseva, A.I. - 351, 490
Stepanenko, B. N. - 19
Stom, D. I. - 95
Suleimanov, K. G. - 376
Surovtseva, V. M. - 609
Sycheva, E. M. - 490

T

Tarasova, N. V. - 147
Tat'yanenko, L. V. - 187
Ter-Kazary'yan, S. Sh. - 590
Termkhitarova, N. G. - 522
Timofeeva, S. S. - 95
Tishchenko, V. P. - 495
Tiunova, N. A. - 367
Tkachenko, N. I. - 481
Tkemaladze, G. Sh. - 232
Tkeshelashvili, Ch. F. - 508, 645
Tolkachev, A. N. - 381
Tommé, M. F. - 525
Troyan, A. V. - 642
Trubnikov, V. F. - 499
Tsyperovich, A. S. - 7
Tukan, L. I. - 371

U

Ulezlo, I. V. - 286
Umarov, A. U. - 503
Ushakova, V. I. - 554

V

Vakar, A. B. - 122, 247, 327
Valenietse, M. Yu. - 543
Valyukaite, R. V. - 449
Varnaite, R. N. - 47
Vasil'ev, N. F. - 201
Vas'kovskii, M. D. - 537
Vedeneeva, N. A. - 159
Vendt, V. P. - 550
Veselov, I. Ya. - 281, 638
Vikhanskii, Yu. D. - 163
Visokinskas, A. A. - 601
Vlasenko, T. D. - 564
Vodorez, G. D.- 629
Vorob'eva, G. I. - 168
Vorob'eva, V. Ya. - 1
Vorotilo, S. P. - 439

Y

Yakovenko, V. A. - 485
Yakovlev, D. A. - 201
Yakusheva, M. I. - 196
Yangol', L. A. - 428
Yarovenko, V. L. - 476
Yurkevich, V. V. - 435
Yusupova, D. V. - 613

Z

Zabrodina, T. M. - 247, 327
Zaitseva, Z. M. - 163
Zalashko, M. V. - 586
Zaprometov, M. N. - 47
Zhumashev, Zh. - 133
Zotova, N. N. - 122, 336, 351
Zvereva, G. A. - 576
Zvyagintsev, V. I. - 242, 301, 381, 605
Zyuz'ko, A. S. - 422

APPLIED BIOCHEMISTRY AND MICROBIOLOGY

Volume 8, Numbers 1-6, 1972

(A translation of Prikladnaya Biokhimiya i Microbiologiya)

Volume 8, Number 1 January-February, 1972

	Eng./Russ.	
Study of DNAase Activity of Antiobiotic-Producing Actinomycetes – A. A. Baskakova, A. V. Baldina, and V. Ya. Vorob'eva	1	5
Comparative Investigation of the Properties of α-Amylases of Mold Fungi of the Genus Aspergillus – I. I. Perevozchenko and A. S. Tsyperovich	7	12
Characteristics of the Elastic Complex from Actinomyces rimosus – Rimoprotelin – Yu. A. Rassulin, E. D. Kaverzneva, and G. S. Erkomaishvili	13	19
Endopolyglycosidase and Oligoglycosidases from Aspergillus awamori, Which C eave Glucomannanes – A. A. Kuznetsov and B. N. Stepanenko	19	26
Carbohydrate Components in the Nutrient Medium for Slow-Growing Nodule Bacteria – T. V. Shmyreva and T. B. Plaksina	26	34
Oxidative Capacity of Thiobacillus ferrooxidans in Connection with the Content of O_2 and CO_2 in the Habitat – A. I. Golomzik and T. L. Mikhailova	30	38
Effect of Different Nitrogen and Carbon Sources on the Accumulation of Glutamic Acid and Valine in Filtrates of the Culture Liquid of Bacterium agile 745 and Bacillus cereus 1089 Isolated from Typical Irrigated Sierozem – V. V. Lazareva	34	42
Characteristics of Juices Obtained with the Pectolytic Enzyme Preparation Pectawamorin – K. A. Kalunyants, Z. N. Kishkovskii, and S. G. Rokhlenko	38	46
A Study of the Essential Oils of the Grape and of Wines of the Leading Varieties of Grape of Azerbaidzhan – A. K. Rodopulo, I. A. Egorov, A. A. Bezzubov, T. A. Kormakova, and K. V. Megrelidze	43	52
The Phenolic Compounds of the Rhizomes of Alpine Jointweed – R. N. Varnaite, I. A. Pipinis, and M. N. Zaprometov	47	57
A Study of Changes in the Composition of the Cardiac Glycosides in the Drying of the Roots of Spreading Dogbane (Apocynum androsaemifolium) – M. G. Borikhina and A. R. Guseva	51	62
Legal Protection of Results in the Field of Microbiology – E. V. Nashataeva and O. M. Kiselev	54	65
Scheme of Analyzing Products from Microbiological Transformation of Aromatic Hydrocarbons – L. V. Andreev, L. A. Golovleva, Z. I. Finkel'shtein, and G. K. Skryabin	63	75
Determination of Nitrates and Nitrites in Culture Solution – M. M. Buzlanova, V. G. Leonova, and L. V. Chervina	69	82
Determination of Glutamine Synthetase Activity in Pea Seed Extracts from Orthophosphate Production – A. V. Pushkin, Z. G. Evstigneeva, and V. L. Kretovich	73	86
A Photometric Method of Determining Free and Glycosidically-Bound Diosgenin in the Rhizomes of Dioscorea deltoidea – V. A. Paseshnichenko, K. Shittabe, and A. R. Guseva	78	92
Method of Quantitative Isolation of Lipids from Green Algae – B. Ivanova and A. Popov	84	99
Purification of Fusarium semitectum Extracellular RNAase – S. I. Bezborodova and R. B. Markauskaite	91	107

BRIEF COMMUNICATIONS

The Development of Quinones of Caffeic and Chlorogenic Acids during the Incubation of Plant Tissues in Their Solutions – D. I. Stom, S. S. Timofeeva, and É. F. Kolmakova 95 112

Changes in Nitrogenous Compounds in Egyptian Barley during Malting – A. Hamid el Farra, M. M. el Gindi, and I. U. Fuda 99 116

Content of B-Complex Vitamins in Table Varieties and Hybrid Seedlings of the Grape – S. S. Khachaturyan and R. G. Avetisyan 101 117

Alkaloid Spectrum of Germinating Nicotiana glauca Seeds – M. Ya. Lovkova, G. S. Il'in, and N. S. Minozhedinova 105 121

Changes in the Content of Vitamin B_6 and in the Activity of Aspartate and Alanine Aminotransferase in the Course of the Germination of Lupine Seeds – L. P. Kobyakova 108 124

Volume 8, Number 2 March-April, 1972

Modern Concepts of the Mechanism of the Action and Metabolism of Vitamin D in the Animal Organism (Survey) – V. K. Bauman 113 131

Comparative Studies of the Effect of D_2O on Wheat and Rye Gluten – N. N. Zotova, T. N. Katykhina, and A. B. Vakar 122 141

Changes in the Myofibrillar Proteins of Buffalo Meat during Its Ripening and under the Influence of Ficin – V. I. Solov'ev and A. P. Dubinskaya 124 144

Electrophoretic Study on the Effect of Thermal, Ultrasonic, and Enzyme Treatment of Milk on Casein. Electrophoresis Method – Z. S. Seitov and Zh. Zhumashev 133 154

Theoretical Evaluation of Element Balance in Growth of Microorganisms on n-Alkanes and n-Alkanols – I. G. Minkevich, G. P. Popkov, and V. K. Eroshin 138 160

Effect of β-Propiolactone on Saprophytic Microorganisms – L. V. Malishevskaya and V. K. Eroshin 143 167

Effect of Sources of Carbon Nutrition on Synthesis of Alcohol Dehydrogenases by Yeasts – N. V. Tarasova, N. N. Latysheva, N. I. Galun, and A. D. Gololobov 147 172

Study of the Membrane Lipoprotein Complex of Yeasts Grown on Media with Different Carbon Sources – T. S. Ryabova, G. I. Ivanova, and A. D. Gololobov 152 178

Biosynthesis of the Lytic Enzymes from Actinomyces globisporus Strain B and Their Action on Yeasts from the Genus Candida – B. Kh. Shklyar and L. A. Shukan 155 181

Protein Content and Digestibility in Feed Yeast Cultured with Different Carbon and Nitrogen Sources – A. V. Khotyanovich, N. A. Vedeneeva, and Z. I. Kubareva 159 186

Pigmented Mutants of Micrococcus glutamicus and Their Properties – Z. M. Zaitseva, S. P. Legchilina, and Yu. D. Vikhanskii 163 191

Localization of Hydrocarbons in the Yeast Candida guilliermondii NP-4 Grown in Paraffin-Containing Media – G. N. Maksimova, G. I. Vorob'eva, and S. P. Grigor'eva 168 197

Some Plants as Sources of Raw Material for the Production of Catechins – K. M. Dzhemukhadze and T. S. Mgaloblishvili 176 207

Study of Water-Soluble Protein of Yeast Candida tropicalis by Elution Chromatography – O. B. Korchak, E. G. Davidova, and V. V. Rachinskii 182 215

Purification of Protamine Sulfate and Its Use for Isolating Acid and Basic Proteins and Nucleic Acids – R. I. Gvozdev, L. V. Tat'yanenko, Z. P. Belova, and A. P. Sadkov 187 221

Purification of Penicillium brevicompactum RNAase – T. V. Il'ina and S. I. Bezborodova 191 226
Polarographic Determination of Molybdenum in Proteins – B. A. Kuznetsov, M. I. Yakusheva, and N. P. L'vov 196 232
Use of a Graphic Differentiation Method for Determining the Total and Specific Growth Rates of Lactic Acid Streptococci – N. F. Vasil'ev, N. V. Novotel'nov, L. I. Shmeleva, and D. A. Yakovlev 201 238
Comparative Evaluation of Certain Thermophilic Hydrocarbon-Oxidizing Microorganisms according to Protein and Amino Acid Content – R. A. Borodina, M. Ya. Andrusenko, and V. I. Runov 204 241
On the Possible Content of Toxic Substances in Enzymatic Preparations (Review) – L. S. Priputina 208 246

BRIEF COMMUNICATIONS
Changes in the Tannin–Catechin Complex during the Production of Black Tea – R. R. Dzhindzholiya, L. M. Kharebava, N. Sh. Chikovani, and Sh. K. Kobakhidze 212 251
Some Biochemical Processes Involved in White Port Wine Manufacture – B. A. Babakhanov and T. A. Kormakova 215 254
Synthesis of 2,3-Dihydroxy-4-phenylquinoline by a Penicillium cyclopium Culture – I. I. Guseva, A. G. Kozlovskii, and A. M. Bezborodov 219 259
An Investigation of the Antimicrobial Activity of Some Naphthoquinones – I. N. Sokolov, A. E. Chekhova, Ya. T. Eliseev, G. I. Nilov, and L. R. Shcherbanovskii 222 261

Volume 8, Number 3 May–June, 1972

A Study of the Taste and Aroma of the Potato–D. V. Lipsits and V. A. Sikilinda 225 267
Effect of Phenolic Compounds on Malate Dehydrogenase Activity in a Tea Plant – G. Sh. Tkemaladze, Z. N. Morchiladze, Ts. Sh. Dzhamaspishvili, and V. L. Kretovich 232 275
Effect of Dehydration on the Available Lysine Content in Candida Tropicalis C-36 – B. É. Damberg and M. G. Laivenieks 239 283
Study of Certain Properties of Bitter Decomposition Products of Casein and Investigation of the Possibility of Their Hydrolysis–V. I. Zvyagintsev, I. P. Buzov, A. N. Belov, and N. S. Novgorodova 242 287
An Investigation of the Physicochemical Differences of Glutens of Different Qualities–A. B. Vakar, V. S. Demidov, and T. M. Zabrodina 247 292
Mechanism of the Intensification of the Outflux of Assimilates from Sunflower Leaves into Seeds as a Result of the Action of the Defoliant Magnesium Chlorate – N. V. Bukina and A. A. Prokof'ev 257 304
Ethyl Acetate Formation during Fermentation of Brewing Wort–I. M. Gracheva and N. N. Gavrilova 261 308
Some Characteristics of Proteinase Biosynthesis by Mutant Strains of Aspergillus terricola–N. V. Popova and L. M. Fedotova 265 313
Effect of Antibiotics on the Biosynthesis of Glutamic Acid by Brevibacterium flavum – Lyong Duk Fam, Yu. V. Kaptereva, and M. S. Pisareva 270 319
Change in the Fluorescence Intensity of NAD-H_2 in Candida guilliermondii in the Transition from an Anaerobic to an Aerobic State–S. K. Maneshin and A. A. Arevshatyan 273 323
Dynamics of Reducing Activity of Lactic Acid Streptococci during Growth in Milk – G. A. Belova 276 327

An Investigation of the Possibility of the Fermentation of Sugar Beet Molasses by the Organism Clostridium acetobutylicum, Strain S—G. P. Lukina, I. S. Logotkin, and I. Ya. Veselov 281 332
The Lignolytic Activity of Certain Wood-Destroying Fungi—R. V. Feniksova, I. V. Ulezlo, and N. Yu. Pukit 286 337
Effect of Amino Acids on Cobamide Synthetic Activity of Propionibacterium shermanii —R. V. Kucheras and A. G. Gebgardt 290 341
An Investigation of the Possibility of Using a Recirculating Stream of the Culture Liquid to Control Thermophilic Methane Fermentation—A. V. Babayants, Ya. A. Khanukaev, A. V. Korchinskii, L. N. Kondakova, and A. A. Petrenko 295 347
Separation of Various Rennin Preparations of DEAE-Cellulose—E. G. Sergeeva, T. V. Dolgikh, and V. I. Zvyagintsev 301 354
Precipitation of Gold from Chloride Solutions by Mold Fungi—G. G. Mineev, A. S. Chernyak, and L. P. Semenova 304 358
Method for Determining Methyl Malonic Acid—L. V. Snegireva and L. Ya. Areshkina 308 363
Determination of Weakly Reacting Sulfhydryl Groups in Meat and Their Reaction with p-Chloromercury Benzoate—A. S. Bol'shakov, I. I. Karpeev, N. S. Mitrofanov, and V. I. Khlebnikov 312 367

BOOK REVIEW
M. V. Zalashko. Lipid Biosynthesis by Yeasts—K. A. Kozlov and M. Ya. Kalyuzhnyi 317 374

Volume 8, Number 4 July-August, 1972

The Use of the Method of Luminescent Antibodies for the Microbiological Control of Food Products (Review)—O. V. Afanas'eva 321 379
Change in Sulfhydryl Groups and Disulfide Bonds in Proteins during the Ripening and Germination of Wheat—T. V. Gorpinchenko, T. M. Zabrodina, A. B. Vakar, and V. L. Kretovich 327 386
Amino Acid Composition of Rye Gluten—V. F. Golenkov, L. G. Priezzheva, and V. M. Gil'zin 332 392
Absorption of H_2O and D_2O by Wheat Grain of Different Quality—N. N. Zotova, I. P. Ezhova, and V. L. Kretovich 336 396
Influence of "Mild" Defoliation on the Yield and Quality of Sunflower Seeds —A. A. Prokof'ev and N. V. Bukina 340 402
The Influence of the Epiphytic Culture Pseudobacterium lacticum 392 on the Pattern of Accumulation and Distribution of the Free and Bound Forms of β-Indoleacetic Acid in Barley Organs—I. V. Mishke and A. A. Klintsare 345 407
Content of Free Amino Acids in Rice Grain during Storage—Ch'ang Thi Than Mai, N. N. Zotova, E. D. Kazakov, and A. I. Starodubtseva 351 414
Enzymatic Oxidation of Chlorogenic Acid in Healthy and Damaged Potato Tubers —O. N. Savel'eva, V. D. Baliauri, O. L. Ozeretskovskaya, L. V. Metlitskii 355 418
Variation of Gas Exchange of Apples during Storage—A. V. Boitsova and B. D. Ignat'ev 362 426
Fractionation of Cellulase Complex of Trichoderma sp. 18_5—N. A. Tiunova, R. V. Feniksova, N. G. Shalamberidze, and N. A. Rodionova 367 432
Dymanics of Incorporation of Labeled Carbon into Free Amino Acids and Proteins during Hydrocarbon Nutrition of Yeasts—B. K. Khuskivadze, A. D. Gololobov, and L. I. Tukan 371 437
Candida albicans Amino Acids Dehydrogenases during Various Periods of Growth —B. S. Drabkin, K. G. Suleimanov, and N. V. Mishnaevskii 376 443
Certain Data on the Structure and Properties of Milk Proteins (Review) —V. I. Zvyagintsev, P. F. Krasheninin, and A. N. Tolkachev 381 449

Gel-Chromatographic Study of the Products of Casein and Soy Albumin Hydrolysis by Actinomyces fradiae 119 Proteinases—I. S. Petrova, D. A. Dolidze, and R. V. Feniksova ..... 393 | 464
The Amount of Chymotrypsinogen in the Pancreas—M. T. Proskuryakov ..... 397 | 468
The Role of Cobalt in the Physiology of Nitrogen-Fixing Microorganisms and the Fixation of Molecular Nitrogen—O. I. Koleshko ..... 399 | 470
The Role of Vitamin B_{12} in the Metabolism of Methionine and Valine in Chicks —L. V. Snegireva, V. F. Bekker, and L. Ya. Areshkina 403 475
Change in the Activity of Enzymes of Wine Yeasts and Wine during Autolysis —S. P. Avakyants, F. I. Shakarova, and L. G. Sarkisova 408 481
Qualitative and Quantitative Changes in Certain Essential Oils in Plant Material Due to the Action of Organic Solvents—V. A. Shlyapnikov and A. P. Shlyapnikova 414 488
Use of Fluorescent Antibodies for Demonstrating Thermophilic Bacteria in the Canning Industry—K. I. Chervyakova, I. P. Persianova, and F. T. Makarchuk 419 495
Investigation of Monocarbonyl Compounds in the Volatile Components of Bread —A. S. Zyuz'ko, N. G. Enikeeva, and R. V. Golovnya 422 498
An Investigation of the Enzymatic Activity of Sporiferous Bacteria Isolated from the Soils of Georgia— Yu. V. Kaptereva, N. A. Balashova, and L. A. Yangol' 428 505

BRIEF COMMUNICATIONS
The Development of Sugars with para-Dimethylaminobenzaldehyde on Paper Chromatograms—R. Ya. Abramovich and A. I. Rotar' 431 509

Volume 8, Number 5 September-October, 1972

The Mechanism of Starch Influence on Biosynthesis of α-Amylase in Aspergillus oryzae—V. V. Yurkevich and N. N. Shurygina 435 515
Effect of Nutrient Medium Composition on Biosynthesis of Lytic Enzymes by a Thermotolerant Strain of Actinomyces sp. 11—S. P. Vorotilo and S. A. Konovalov 439 520
A Comparative Study of the Enzymatic Activity and Inhibition of Terrilytin and Some Proteases with Thrombolytic Activity—A. A. Selezneva, T. A. Kozlova, and G. V. Samsonov 444 526
Specificity of Intracellular Ribonuclease of Aspergillus clavatus 1816 —G. S. Ivanova, R. V. Valyukaite, and A. M. Bezborodov 449 532
Pectolytic Enzymes of Clostridium felsineum —L. S. Kapitonova, N. A. Rodionova, and R. V. Feniksova 456 539
A Study of the Cellulolytic Enzymes of the Thermotolerant Strain Actinomyces diastaticus 7—I. G. Golovina 462 546
Enzymatic Hydrolysis of Starch and Starch Phosphate of Millet Grain and the Characterization of the Resulting Products—V. V. Kapustina, M. S. Dudkin, and N. A. Kalashnikova 469 554
The Significance of Aeration in the Formation of Benzylpenicillin Acylase by a Submerged Culture of Escherichia coli—G. I. Kleiner and S. V. Lopatnev .. 473 559
Study of Processes of Carbohydrate Consumption and Biosynthesis of Amylases by Mold Aspergillus awamori 224-21 Depending on the Composition of Multicomponent Carbohydrate Nutrient Media—V. L. Yarovenko, T. N. Pisarenko, and G. M. Dobrolinskaya 476 562
Microbiological Treatment of Hydrogen Sulfide Waste Waters in the Sulfate Pulp Industry—N. I. Tkachenko and L. B. Pomerants 481 569
The Effect of Hydrothermal Treatment of the Grain on the Amino-Acid Composition of Maize Groats—V. A. Yakovenko, G. I. Evdokimova, and L. Yu. Isarova 485 574
Respiration Rate and Enzyme Activity in Stored Oat Grain—E. D. Kazakov, A. I. Starodubtseva, and E. M. Sycheva 490 579

Qualitative Characteristics of Pectin Substances of Various Plants —V. P. Tishchenko and E. V. Sapozhnikova 495 586
Kinetic Investigation of the Absorption of Oxygen in the Aerobic Fermentation of Tobacco—V. F. Trubnikov 499 591
The Oils in a Number of Species of the Cruciferae—A. U. Umarov, A. L. Markman, and B. M. Baram 503 595
Phenols of the Essential Oil of Tea—V. T. Gogiya and Ch. F. Tkeshelashvili 508 600
Determination of Polygalacturonase Activity—D. B. Lifshits, L. E. Kaftanova, and I. B. Medovaya 512 604
Separation of Anion-Exchange Cellulose of Free Amino Acids and Peptides from Enzymatic Hydrolysates of Casein and Soy Bean Albumin —I. S. Petrova and D. A. Dolidze 518 610
The Use of β-Propiolactone as a Preservative when Determining Small Quantities of Glucose in Culture Media—M. M. Buzlanova, N. G. Termkhitarova, and A. N. Shkidchenko 522 614
Determination of Lysine and Methionine by Microbiological Methods—M. F. Tommé and G. K. Skorkin 525 617
Automatic Recording of Elution Curves for Polyhydric Alcohols in Gel Chromatography—L. I. Linevich, G. D. Erygin, and E. R. Ambartsumyan 530 622
Structural Organization of Milk Fat Globule Membranes—G. I. Klebanov and P. F. D'yachenko 533 625

BOOK REVIEWS
V. N. Bukin (editor). Vitamin B_{12} and Its Use in Animal Husbandry — Reviewed by A. V. Khotyanovich and M. D. Vas'kovskii 537 630

Volume 8, Number 6 November-December, 1972

The Fiftieth Anniversary of the Creation of the Union of Soviet Socialist Republics 539 837
Effect of Vitamin D Intake on Content of Calcium-Binding Protein in Organs of Chickens and Hens — V. K. Bauman and M. Yu. Valenietse 543 841
A Study of the Biological Activity of a Vitamin D_3 Conversion Product in Bone Tissue — L. I. Apukhovskaya and V. P. Vendt 550 849
Isolation and Study of Some Properties of the Proteolytic Enzymes Formed by Penicillium lilacinum Thom. — N. S. Egorov, V. I. Ushakova, and N. A. Andreeva 554 854
Testing of Proteolytic Enzyme Preparations on a Culture of Bacillus mesentericus Strain 11-11 in Leather Manufacture — B. Orosyn, L. P. Istranov, and T. A. Smirnova 560 861
The Use of Proteolytic Enzyme Preparations in the Prodution of Natural Silk — R. N. Grebeshova, V. M. Shvartsman, T. D. Vlasenko and S. D. Renzina 564 866
Fractionation of Glucoamylase and α-Amylase Produced by Endomycopsis sp. 20-9 — É. V. Kol'tsova, E. N. Oreshkin, and A. I. Lazarev 567 869
Biocatalytic Decomposition of Cellobiose and Celluloses — V. I. Smirnov and O. P. Koz'mina 571 874
Effect of Cultivation Conditions on Gas Exchange of the Yeast Candida guilliermondii — N. P. Kaluyants, P. N. Fisher, I. N. Ochneva, É. A. Morkovina, and G. A. Zvereva 576 879
CO_2 Production by Microorganisms of Different Taxonomic Groups during Their Cultivation in Media Containing Carbohydrates and Hydrocarbons — R. A. Borodina, L. G. Davydova, M. Ya. Andrusenko, and V. I. Runov 582 886
Influence of the Temperature of Culturing on the Fatty Acid Composition of the Lipids of Yeast Grown on Peat Hydrolyzates — M. V. Zalashko, V. D. Adreevskaya, and N. V. Obraztsova 586 891

	Engl.	Russ.
Biosynthesis of Diacetyl by Lactic Acid Bacteria – S. Sh. Ter-Kazar'yan, Z. Kh. Dilanyan, and A. S. Sagoyan	590	896
Activation of Lactic Acid Microorganisms by Products of Thermophilic Methane Fermentation – R. N. Khandak, É. D. Mikhlin, and A. V. Gudkov	594	901
Structural Changes in Cheese Proteins during Cheese Ripening – K. D. Butkus, A. A. Visokinskas, and V. P. Butkene	601	908
The Characteristics of Cheeses Made with a Preparation from Mucor sp. renninus 367 – V. I. Zvyagintsev, P. F. Krasheninin, E. G. Sergeeva, I. P. Buzov, M. S. Mosichev, and N. A. Rubtsova	605	913
Primary Evaluation of Microscopic Fungi as Producers of Alkaloids – A. M. Bezborodov, I. I. Guseva, O. V. Kruglaya and V. M. Surovtseva	609	918
Influence of the Composition of the Nutrient Medium on the Growth and Deoxyribonuclease Activity of Pigmented and Unpigmented Strains of Serratia marcescens – D. V. Yusupova, A. Z. Gareishina, and M. I. Belyaeva	613	922
Content of Vitamins of the B Complex in Certain Wine-Grape Varieties, Hybrid Seedlings and Wines – R. G. Avetisyan and A. Kh. Adamyan	618	927
The Assimilation of Amino Acids by Wine Yeast in the Fermentation of Must with Aeration – A. A. Martakov, L. T. Ermachkova, and G. V. Potoroko	623	932
Properties of Wine Materials Obtained by Bulk Fermentation under a Pressure of CO_2 – N. I. Bur'yan, V. I. Nilov, and G. D. Vodorez	629	939
Changes in the Amount of Higher Alcohols and Esters in Cognac Alcohols According to the Conditions of Holding the Cognac Wine Materials – G. R. Gadzhiev and T. A. Kormakova	634	944
Changes in Malt Biochemical Quality Indices in Relation to Malting Method – I. Ya. Veselov, V. A. Polyakov, and I. G. Arslanbekova	638	948
Composition of Intratissue Gases of Fruits Depending on the Ambient Atmosphere – A. V. Troyan and L. B. Atsberger	642	953
The Composition of the Organic Acids of the Essential Oils of Tea – Ch. F. Tkeshelashvili and V. T. Gogiya	645	956
An Evaluation of Methods of Determining Dehydrogenases and Disintegrating Brevibacterium Sp. 22L Cells in a Study of Their Activity – M. P. Ruklisha	651	963
Diffusion of Pectinase through Porous Membranes – G. V. Samsonov, T. I. Rozhanskaya, B. V. Moskvichev, and G. B. Selekhova	657	970
Purification and Concentration of Protein Solutions via Semipermeable Membranes Made of Cellulose Acetates – L. P. Perepechkin, V. P. Dubyaga, A. A. El'bert, É. M. Chartov, and N. F. Kononov	660	973
BRIEF COMMUNICATIONS		
Study of Starch from Leguminous Seeds – M. R. Mukhtarova and G. N. Lovacheva	664	978
The Utilization of Amino Acids from Yeast Residue by a Thermophilic Culture of Methane-Producing Bacteria – M. I. Koshel', A. I. Skirstymonskii, I. V. Demchenko, and L. A. Demchinskaya	668	982
INDEX		
Author Index, Volume 8, Numbers 1-6, 1972	673	
Tables of Contents, Volume 8, Numbers 1-6, 1972	677	